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**PT. SINKO PRIMA ALLOY**

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It is a great honor for us that you have selected the MAP - 380 Medical Air Purifier (here in after referred to as MAP -380). Please read this manual before operating the MAP-380. Please follow the instructions in this manual for installation, operation, and maintenance of the MAP-380. This manual is an important part of the MAP-380. Please store it properly. Please read all information in this manual before operating . MAP-380. The information in this manual will help you quickly understand how to operate the MAP-380. MAP-380.All contents including figures and images are not permitted for other use without written consent from Sinko. Only engineers properly trained and certified by Sinko are allowed to work on the installation, maintenance and troubleshooting of the MAP-380.

If this manual is lost, please contact us for another copy. This manual is compiled according to standard medical product specifications. As the MAP-380 is being updated, if anything is inappropriate please call or email us. Since the MAP-380 is being updated, PT. Sinko Prima Alloy reserves the right to modify the technical parameters and the manual itself.

MAP-380 series air purifier is High efficiency tools are developed and manufactured using "physical purification, chemical purification, ion purification" technology ; air purification through gas circulation, which can handle air-based pollution, such as cigarette particulate matter, formaldehyde, benzene, dust, pollen, erythrobacter and larger pathogen filters, etc.

**Front Filter** : when the unit is operating, the unit will provide a physical purification effect, which can block particles larger than the smallest filter material blank and reduce the load on the rear filter.

**HEPA Filter** : the latest generation of fiber filters electrostatic which can increase filtration . HEPA filters can catch particle more small from the cell. As addition **Formaldehyde, Benzene Filter:** formaldehyde, toluene and other gases contained in the air can absorbed and filtered to produce water and carbon dioxide and substances that are not harmful to the human body.

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**Negative Ion Generator** : produces a lot of negative ions, quickly neutralizes positively charged particles in the air, effectively kills bacteria in the air, and creates a fresh, natural and comfortable air environment.

**Dust Sensor**: automatically detects the level of air pollution, and automatically controls the operating state of the machine.

**Auto Alarm** : set alarm prompt for Port network replacement

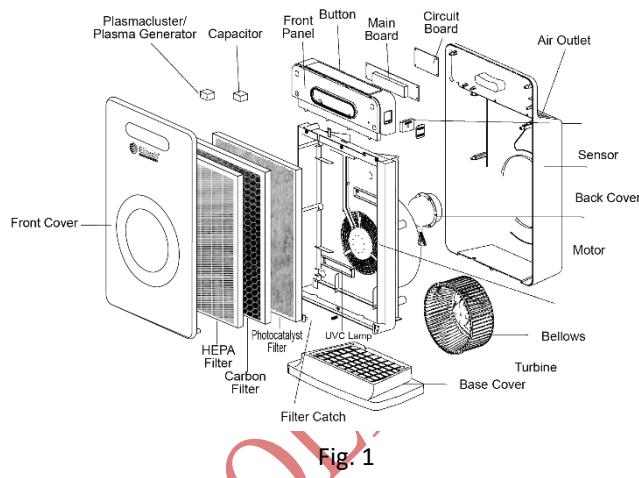


Fig. 1

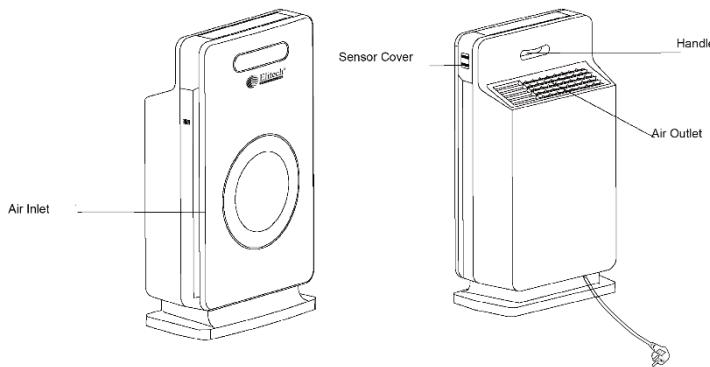


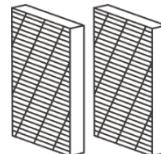
Fig. 2

**Notes:**

If the main part of the actual model does not match the shape and part , please use the actual shape as the main model .

### About this machine

- The standard configuration of this machine's filter is to remove formaldehyde, toluene, and other harmful gases, including formaldehyde and benzene. Users can also choose to remove secondhand smoke as an additional smoke filter.
- When using the machine for the first time, before placing the filter into the machine, remove the protective film of the filter packaging and pay attention to the order in which the filter is placed (see filter installation and removal for details).



### Please pay attention when placing

- For effective air circulation, the air inlet and outlet should be approximately 30 cm from walls and walls.
- Place the unit in a position that does not block the air inlet and outlet.
- If placed in a place exposed to direct sunlight or next to heating equipment, it may cause deformation, abnormality, or discoloration.
- If placed near magnetic objects such as speakers or magnetic equipment, the unit may not operate properly.



### About Where the Purifier Is Used

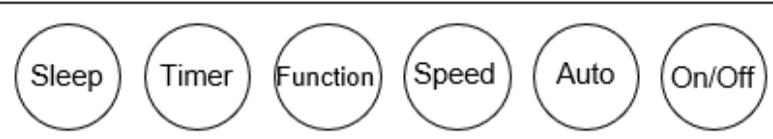
- Family Environment: Paint, composite materials, air-proof materials, and other decorative materials used in homes, especially in decoration, contain varying levels of hazardous and volatile substances such as formaldehyde and benzene. These can cause damage, allergies, and other harmful substances, leading to vision loss, mental decline in children, leukemia, and cancer after long-term exposure. This product can effectively remove toxic and other harmful substances indoors, inhibit the spread of bacteria, and effectively improve indoor air quality.
- Office Environment: Due to the large number of people and the variety of people in public environments, odors, smoke, and infectious diseases are easily generated, which can damage air conditioners. Using this machine can improve ambient air quality, protect health, and increase office efficiency. At the same time, a clean environment will leave a good impression on customers.

- To maintain the purification effect

If the filter is too dirty, it will affect the effectiveness of the product.

If the filter is too dirty to clean, please replace it with a new one.

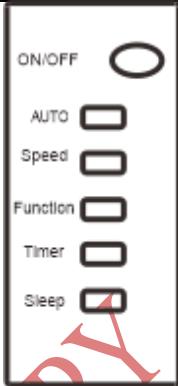
### Control chart



### Instructions for using the key:

- **On/Off:** Connect with Source electricity, the machine will make a “beep” sound, the machine is in standby mode, press the switch button, the screen will active, Engine is on, and in operating condition (Displays environmental PM2. 5 value (reference)).

- **Auto** : press the “Auto” button to detect the environmental air quality (dust, PM 2.5), the product can automatically adjust the wind speed according to the environmental quality (high speed (heavy pollution), medium speed (general pollution), low speed (slight pollution) ) , the corresponding indicator light will light up.
- **Speed** : press the wind speed button to adjust different wind speeds (high speed, medium speed, low speed), the corresponding indicator light will be on. light up.
- **Function** : Press the “Function” button , you can choose to activate or deactivate **negative** ions , the corresponding indicator light will be on. light up.
- **Timer** : Press the “timer” button , **you** can set the timer from 1 hour to 8 hours or continuous operation according to your needs, the indicator light will be on. adjust , when the machine runs for the set time, the machine will automatically turn off at this time.
- **Sleep** : after pressing the “Sleep” button , the machine enters Set up sleep mode and automatically switch to low-end operation to ensure a peaceful and worry-free sleep. Press again to cancel sleep mode. (In sleep mode, 8 hours of automatic shutdown )
- **Replace the filter** : when the indicator lights up, it indicates filter needed replaced Because loss of filtration performance, the timer will reset after filter replacement , please press and hold the “Sleep” button for 5 seconds until it is heard the sound "b ee p" for restart the timer.



**Note:** If the actual model does not contain one or more of the above features, refer to the actual model as a guide.

### Remote control

Point the remote control at the machine, based on the angle and distance at which the machine can be turned on . Press the remote control and the

machine will sound a reminder to let you know that the button function has been activated. The maximum control distance between the remote control and the machine is 5 meters. When the battery runs out, the remote control will not work. Can functioning with good and the battery needs to be replaced. (See the picture on the right)

Specific steps:

Place your finger on the battery cover and push it down to remove it. Insert the two batteries with the correct polarity. Then, close the battery cover.

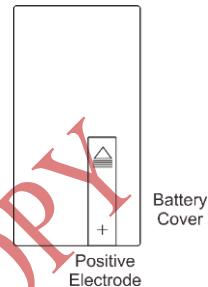


Fig. 5

### Disassembling and Installing Filters

Lift the bottom of the decorative panel about 30 degrees in the direction of the arrow and lift it up to remove the panel.

Rotate the Buckle filter 90 degrees to the left or right, place your finger on it and pull out the first filter. Hold the filter handle with both hands. hands and slowly pull it out to remove the filter (as shown below) (when installing and removing the filter, be careful not to break the stopper).

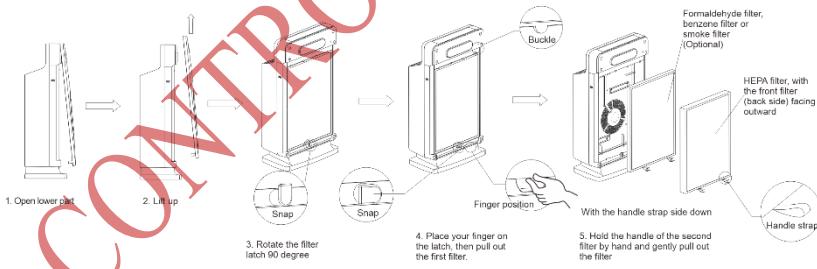


Fig. 6

The filter installation and decorative panels are installed in the reverse order of removal.

## Technical specifications

Model	MAP-380	
Voltage frequency	220V ~ 50Hz	
Power	75W	
Types of protection against electric shock	Class II	
Configuration function	Electronic control, configuration speed, time, timer, reminder filter replacement, negative ions, remote control, automatic, PM 2.5	
Filter configuration	1. HEPA filter 2. Carbon filter 3. Photocatalyst filter	
Sterilization	UV and Plasmacluster	
Panel configuration	Plastic panels	
Formaldehyde filter efficiency	≥ 90%	
Benzene filter efficiency	≥ 90%	
Smoke release efficiency  (Ammonia, acetaldehyde, acetic acid, ethyl mercaptan, hydrogen sulfide, etc.)	≥ 90% (Smoke filter is optional)	
Bacterial filter efficiency	≥ 90%	
Effective area	< 50m <sup>2</sup> (indoor)	
Clean air volume	480 m <sup>3</sup> /h	
Anion concentration	10 x 10 <sup>7</sup> pcs/cm <sup>3</sup>	
Noise Level	≤ 30 dB (sleep mode)	
Dimensions	230 mm(L) x 425 mm(W) x 740 mm(H)	
Net weight	8.7 kg	
Operational	Temperature	-10°C ~ 40°C
	Relative humidity	≤ 90%
	Atmospheric pressure	700 hpa
Transportation and	Temperature	-20°C ~ 55°C

Storage	Relative humidity	≤95%
	Temperature	700 hpa

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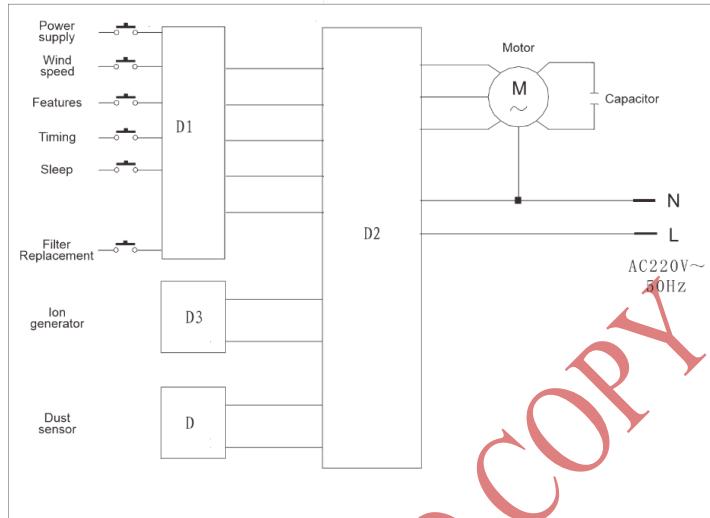


Fig. 7

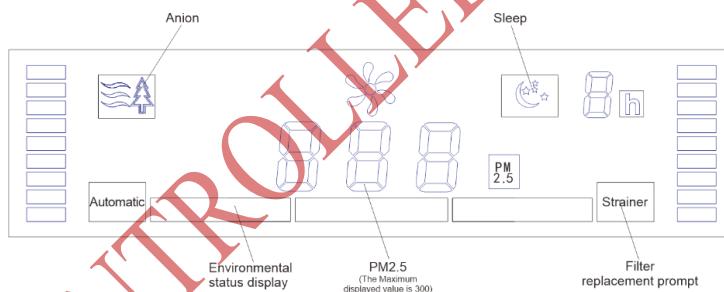
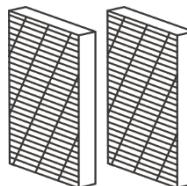


Fig. 8

**Use a vacuum cleaner to remove dirt on the filter surface.**



- Remove the HEPA filter and other functional filters and use a vacuum cleaner to remove dust and dirt from the filter surface.
- Install the cleaned filter into the unit (black side facing out).

**Caution:**

- Do not crush the filter, as this will affect filtration effectiveness.
- Do not air-wash the HEPA filter and functional filters.
- **It is recommended to replace the filter network once a year.**

### **Abnormal processing state**

When there is an abnormal phenomenon in the operation of this machine, turn off the power switch immediately, unplug the power plug and notify our company's service center to handle it. Do not open the unit parts yourself to avoid danger.

Unusual phenomenon	Abnormal reasons	Solution
The motor is not running	Power is not plugged in source electricity	Reinsert the power supply to source electricity
	Problems with the motor or electrical components	Professional inspection and maintenance
	The front panel is not covered in	Replacing the front panel
Body vibrations and abnormal sounds	Body is not positioned properly	Adjusting body position
	The protective film on the filter is not removed.	Removing the protective film from the filter

	Turbine damaged and unbalanced	Professional inspection and maintenance
No action during automatic operation or pollution status indicator does not change	Dust sensors are affected by water vapor, smoke, spray etc.	Move the machine to another environment and test
	Dust sensor failure	Professional inspection and maintenance
Reduce purification effect	Particulate matter cancels out the filter	Need filter replacement
	Excessive dust accumulation on the front filter	Clean the filter before used
	The air inlet and air outlet are blocked by foreign objects.	Remove foreign objects
	The machine is placed in an unreasonable position	Changing engine placement
	Wind speed is not top class	Adjust the wind speed to high-end
Remote Control failed	The battery in the remote control is dead	Replace the battery
Panel button failure	Damage to the PCB or knob	Inspection and maintenance by professionals

**Wipe stains with a dry or damp cloth.**

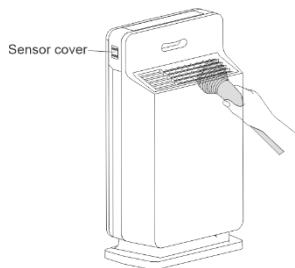
Caution:

- Turn off the unit before cleaning.
- Do not rinse the unit with water.
- Do not use cleaning fluids; use a small amount of neutral kitchen detergent.
- Do not use decontamination powder, cleaning alkalis, alcohol, bleach, TRD, or solvents (they will cause deformation and discoloration).
- When using a chemical cloth, please be aware of the side effects.



**It is recommended to clean the unit every 1 month or so.**

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**Clean the air inlet and outlet sensors**

- Use a clean, damp cloth to wipe away any dust or dirt from the air grill.
- Use a vacuum cleaner with a brush attachment to clean the ventilation openings.
- Always clean the air inlet and outlet, as this will affect the product's purification effect.
- Use a vacuum cleaner or a soft, damp cloth to remove any dirt from the inlet and outlet.
- Use a flat-blade screwdriver to lift the sensor cover and clean the dust from the sensor hole with a cotton swab.
- **It is recommended to clean once a month.**

**⚠ Warning****About use and operation**

Keep away from range children

Otherwise, it may cause danger electric  
shock



Forbidden!

the unit near wet places , even when hand

You wet , don't touch it .

If not, will happen fire and electric shock .



Don't get wet!

 <b>Forbidden!</b> <p>Do not insert needles, wires or metal objects into the air inlet , air outlet and other gaps. Otherwise, it may touch internal parts and cause electric shock or injury .</p>	 <b>Forbidden!</b> <p>Never use chlorine or acidic detergents to clean the inside of the main unit. Detergents can release toxic gases that are harmful to health.</p>
 <b>Do not disassemble!</b> <p>Never disassemble or modify this machine without agreement . Unauthorized dismantling or modification of electrical equipment may cause damage or fire</p>	 <b>Forbidden!</b> <p>Don't remove the filter during operation Otherwise, it may cause injury.</p>

### About power cables, power plugs and sockets

 <p>Connect with a power outlet in a way full Failure in connecting the power outlet can result in connection current short or heat that results fire . Don't using a damaged power outlet or loose socket .</p>	 <p>Do not touch the power plug with wet hands. This may cause electric shock.</p>
 <b>Forbidden!</b> <p>Do not damage the power cord or socket. Do not use damaged cables as they may cause electric shock, short circuit or fire accidents .</p>	 <p>Before cleaning the device, be sure to unplug the power supply. Otherwise, the Machine may run suddenly and cause electric shock.</p>
 <p>Clean the power plug regularly. If dust accumulates on the power plug, moisture can damage the insulation of the plug, resulting in a fire accident. Unplug the power plug and clean with a dry</p>	 <b>Forbidden!</b> <p>Do not use the power supply or specified rating of the connected equipment, only use a 220V AC power supply. Use of Universal sockets or other devices exceeding the specified values may cause</p>

cloth.  If the appliance is not used for a long time, the power plug should be removed.	overheating and fire accidents.
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### Notes

 When cleaning or replacing the filter, please disconnect the power first.  Otherwise, accidents may occur.	 When cleaning or replacing the filter, please disassemble it carefully.  If you accidentally damage the filter, will affect the reliability of the unit.
 Do not place it in an unstable place.  Forbidden! A place that is not stable will produce vibrations in the unit and resulting in accidents .	 Clean the power plug regularly.  This may cause electric shock, short circuit or accident. fire.

If the power cord is damaged, in order to avoid danger, it must be replaced by the manufacturer, maintenance department or other similar professional.

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# MEDICAL AIR PURIFIER

## MAP-380

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MANUAL BOOK

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